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## (54) CEMENT ADMIXTURE, CEMENT COMPOSITION AND APPLICATION OF CONCRETE USING THE SAME

### (57)Abstract:

PROBLEM TO BE SOLVED: To provide a concrete application process that can satisfactorily apply concrete mixtures without leakage from the gaps between mold frames and from crackings, can form the hardened products of stabilized quality without occurrence of phase separation of the material components, causes no loosening and releasing, even when the concrete is applied to the walls, the ceiling face, natural ground and the cavity on the back face of a tunnel.

SOLUTION: The objective cement admixture comprises a water-absorbing polymer that can absorb the water in an amount of  $\geq 1,000$ -fold self-weight of the polymer and an alkali metal aluminate as active ingredients. The water-absorbing polymer that can absorb the water in an amount of  $\geq 1,000$ -fold self-weight of the polymer and an alkali metal aluminate are separately transferred and admixed to the concrete material and the mixed material is applied to the site.

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## LEGAL STATUS

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